(54) Title: MINIMUM NORM SENCE RECONSTRUCTION FOR OPTIMAL SPATIAL RESPONSE



Reduced FOV of aliased image

X

Spatial Response Function (SRF)

X
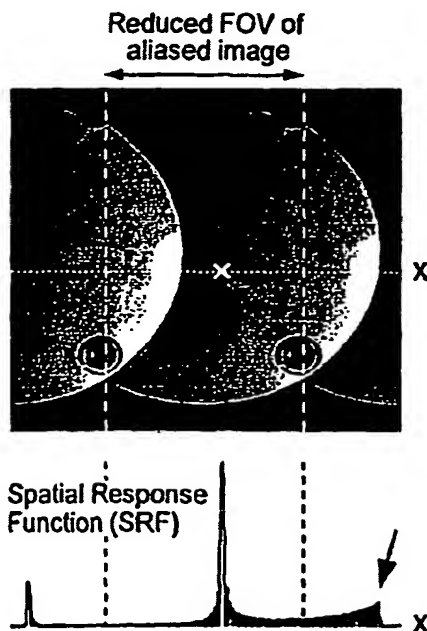
(57) Abstract: A novel magnetic resonance imaging
method is described, wherein undersampled magnetic
resonance signals are acquired by a receiver antenna
system having spatial sensitivity profiles and the image
being reconstructed from the undersampled magnetic
resonance signals and the spatial sensitivity profiles.
The reconstruction of the image is provided by an
optimization of a cost function which accounts for any of
noise statistics, signal statistics, and the spatial response
function, the latter of which is defined by the spatial signal
response from the object to be imaged, separately for each
individual pixel.

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